



PATENT

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January 21, 2005
Date

Ayesha J. Shaikh
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Joseph M. Jeddeloh

Attorney Docket No.: 501304.01

Serial No. : 10/625,132

Group Art Unit : 2182

Filed : July 22, 2003

Examiner : Not Yet Assigned

Title : APPARATUS AND METHOD FOR DIRECT MEMORY ACCESS IN A HUB-BASED
MEMORY SYSTEM

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. Copies of the cited foreign patent and non-patent literature references, as required under 37 C.F.R. § 1.98(a)(2), are enclosed. Copies of the cited U.S. patents and U.S. patent application publications will not be submitted herewith in accordance with the waiver by the Office of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for U.S. national patent applications filed after June 30, 2003. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/893,709, describing and claiming subject matter that is similar to the subject matter of this application, was filed on July 15, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/963,824, describing and claiming subject matter that is similar to the subject matter of this application, was filed on October 12, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/874,698, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 22, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/813,040, describing and claiming subject matter that is similar to the subject matter of this application, was filed on March 29, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/690,810, describing and claiming subject matter that is similar to the subject matter of this application, was filed on October 20, 2003. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/857,467, describing and claiming subject matter that is similar to the subject matter of this application, was filed on May 28, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/846,988, describing and claiming subject matter that is similar to the subject matter of this application, was filed on May 14, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/773,518, describing and claiming subject matter that is similar to the subject matter of this application, was filed on February 5, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

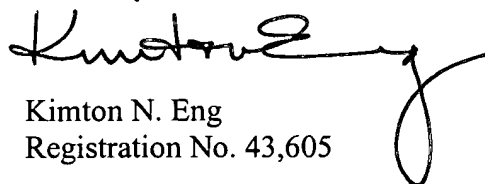
Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/861,145, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 4, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/931,326, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 31, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Please acknowledge receipt of this Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP



Kimton N. Eng
Registration No. 43,605

KNE:ajs

Enclosures:

Postcard
Form PTO-1449
Cited References (5)
Copies of Related Applications (10)

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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
501304.01APPLICATION NO.
10/625,132**INFORMATION DISCLOSURE STATEMENT**

(See several sheets if necessary)

APPLICANT(S)

Joseph M. Jeddeloh

FILING DATE

July 22, 2003

GROUP ART UNIT

2182

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,240,143	12/16/80	Besemer et al.	364	200	
	AB	4,245,306	01/13/81	Besemer et al.	364	200	
	AC	4,253,144	02/24/81	Bellamy et al.	364	200	
	AD	4,253,146	02/24/81	Bellamy et al.	364	200	
	AE	4,707,823	11/17/87	Holdren et al.	370	1	
	AF	4,724,520	02/09/88	Athanas et al.	364	200	
	AG	4,930,128	05/29/90	Suzuki et al.	371	12	
	AH	5,241,506	08/31/93	Motegi et al.	365	210	
	AI	5,243,703	09/07/93	Farmwald et al.	395	325	
	AJ	5,269,022	12/07/93	Shinjo et al.	395	700	
	AK	5,317,752	05/31/94	Jewett et al.	395	750	
	AL	5,319,755	06/07/94	Farmwald et al.	395	325	
	AM	5,355,391	10/11/94	Horowitz et al.	375	36	
	AN	5,432,823	07/11/95	Gasbarro et al.	375	356	
	AO	5,432,907	07/11/95	Picazo, Jr. et al.	395	200	
	AP	5,442,770	08/15/95	Barratt	395	403	
	AQ	5,461,627	10/24/95	Rypinski	370	95.2	
	AR	5,465,229	11/07/95	Bechtolsheim et al.	345	477	
	AS	5,502,621	03/26/96	Schumacher et al.	361	760	
	AT	5,566,325	10/15/96	Bruce, II et al.	395	494	
	AU	5,577,220	11/19/96	Combs et al.	395	416	
	AV	5,581,767	12/03/96	Katsuki et al.	395	800	
	AW	5,606,717	02/25/97	Farmwald et al.	395	856	
	AX	5,638,334	06/10/97	Farmwald et al.	365	230.03	
	AY	5,715,456	02/03/98	Bennett et al.	395	652	

EXAMINER

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* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 501304.01	APPLICATION NO. 10/625,132
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT(S) Joseph M. Jeddeloh	
		FILING DATE July 22, 2003	GROUP ART UNIT 2182

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AZ	5,819,304	10/06/98	Nilsen et al.	711	5	
	BA	5,832,250	11/03/98	Whittaker	395	471	
	BB	5,875,352	02/23/99	Gentry et al.	395	843	
	BC	5,928,343	07/27/99	Farmwald et al.	710	104	
	BD	5,966,724	10/12/99	Ryan	711	105	
	BE	5,973,935	10/26/99	Schoenfeld et al.	361	813	
	BF	5,973,951	10/26/99	Bechtolsheim et al.	365	52	
	BG	5,978,567	11/02/99	Rebane et al.	395	200.49	
	BH	6,023,726	02/08/00	Saksena	709	219	
	BI	6,029,250	02/22/00	Keeth	713	400	
	BJ	6,061,263	05/09/00	Boaz et al.	365	51	
	BK	6,061,296	05/09/00	Ternullo, Jr. et al.	365	233	
	BL	6,067,262	05/23/00	Irrinki et al.	365	201	
	BM	6,073,190	06/06/00	Rooney	710	56	
	BN	6,076,139	06/13/00	Welker et al.	711	104	
	BO	6,098,158	08/01/00	Lay et al.	711	162	
	BP	6,125,431	09/26/00	Kobayashi	711	154	
	BQ	6,137,709	10/24/00	Boaz et al.	365	51	
	BR	6,144,587	11/07/00	Yoshida	365	189.05	
	BS	6,167,486	12/26/00	Lee et al.	711	120	
	BT	6,175,571 B1	01/16/01	Haddock et al.	370	423	
	BU	6,185,352 B1	02/06/01	Hurley	385	114	
	BV	6,191,663 B1	02/20/01	Hannah	333	17.3	
	BW	6,201,724 B1	03/13/01	Ishizaki et al.	365	49	
	BX	6,233,376 B1	05/15/01	Updegrove	385	14	

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BY	6,243,769 B1	06/05/01	Rooney	710	56	
	BZ	6,246,618 B1	06/12/01	Yamamoto et al.	365	200	
	CA	6,247,107 B1	06/12/01	Christie	711	216	
	CB	6,249,802 B1	06/19/01	Richardson et al.	709	200	
	CC	6,285,349 B1	09/04/01	Smith	345	147	
	CD	6,294,937 B1	09/25/01	Crafts et al.	327	158	
	CE	6,301,637 B1	10/09/01	Krull et al.	711	112	
	CF	6,327,642 B1	12/04/01	Lee et al.	711	120	
	CG	6,330,205 B2	12/11/01	Shimizu et al.	365	230.06	
	CH	6,347,055 B1	02/12/02	Motomura	365	189.05	
	CI	6,349,363 B2	02/19/02	Cai et al.	711	129	
	CJ	6,356,573 B1	03/12/02	Jonsson et al.	372	46	
	CK	6,367,074 B1	04/02/02	Bates et al.	717	11	
	CL	6,370,068 B2	04/09/02	Rhee	365	196	
	CM	6,373,777 B1	04/16/02	Suzuki	365	230.03	
	CN	6,381,190 B1	04/30/02	Shinkai	365	230.03	
	CO	6,401,213 B1	06/04/02	Jeddeloh	713	401	
	CP	6,405,280 B1	06/11/02	Ryan	711	105	
	CQ	6,430,696 B1	08/06/02	Keeth	713	503	
	CR	6,434,639 B1	08/13/02	Haghighi	710	39	
	CS	6,434,696 B1	08/13/02	Kang	713	2	
	CT	6,434,736 B1	08/13/02	Schaecher et al.	716	17	
	CU	6,438,622 B1	08/20/02	Haghighi et al.	710	1	
	CV	6,449,308 B1	09/10/02	Knight, Jr. et al.	375	212	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CW	6,453,393 B1	09/17/02	Holman et al.	711	154	
	CX	6,470,422 B2	10/22/02	Cai et al.	711	129	
	CY	6,473,828 B1	10/29/02	Matsui	711	104	
	CZ	6,477,614 B1	11/05/02	Leddige et al.	711	5	
	DA	6,477,621 B1	11/05/02	Lee et al.	711	120	
	DB	6,479,322 B2	11/12/02	Kawata et al.	438	109	
	DC	6,490,188 B2	12/03/02	Nuxoll et al.	365	63	
	DD	6,496,909 B1	12/17/02	Schimmel	711	163	
	DE	6,501,471 B1	12/31/02	Venkataraman et al.	345	424	
	DF	6,505,287 B2	01/07/03	Uematsu	711	170	
	DG	6,523,092 B1	02/18/03	Fanning	711	134	
	DH	6,539,490 B1	03/25/03	Forbes et al.	713	401	
	DI	6,552,564 B1	04/22/03	Forbes et al.	326	30	
	DJ	6,587,912 B2	07/01/03	Leddige et al.	711	5	
	DK	6,590,816 B2	07/08/03	Perner	365	200	
	DL	6,594,713 B1	07/15/03	Fuoco et al.	710	31	
	DM	6,594,722 B1	07/15/03	Willke, II et al.	710	313	
	DN	6,598,154 B1	07/22/03	Vaid et al.	712	237	
	DO	6,615,325 B2	09/02/03	Mailloux et al.	711	154	
	DP	6,628,294 B1	09/30/03	Sadowsky et al.	345	568	
	DQ	6,629,220 B1	09/30/03	Dyer	711	158	
	DR	6,646,929 B1	11/11/03	Moss et al.	365	194	
	DS	6,658,509 B1	12/02/03	Bonella et al.	710	100	
	DT	6,662,304 B2	12/09/03	Keeth et al.	713	400	
	DU	6,667,895 B2	12/23/03	Jang et al.	365	63	

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DV	6,697,926 B2	02/24/04	Johnson et al.	711	167	
	DW	6,718,440 B2	04/06/04	Maiyuran et al.	711	137	
	DX	6,721,195 B2	04/13/04	Brunelle et al.	365	63	
	DY	6,724,685 B2	04/20/04	Braun et al.	365	233	
	DZ	6,728,800 B1	04/27/04	Lee et al.	710	54	
	EA	6,735,679 B1	05/11/04	Herbst et al.	711	167	
	EB	6,735,682 B2	05/11/04	Segelken et al.	711	220	
	EC	6,745,275 B2	06/01/04	Chang	710	305	
	ED	6,751,703 B2	06/15/04	Chilton	711	113	
	EE	6,754,812 B1	06/22/04	Abdallah et al.	712	234	
	EF	6,756,661 B2	06/29/04	Tsuneda et al.	257	673	
	EG	6,760,833 B1	07/06/04	Dowling	712	34	
	EH	6,771,538 B2	08/03/04	Shukuri et al.	365	185.05	
	EI	6,775,747 B2	08/10/04	Venkatraman	711	137	
	EJ	6,789,173 B1	09/07/04	Tanaka et al.	711	147	
	EK	6,792,059 B2	09/14/04	Yuan et al.	375	354	
	EL	6,792,496 B2	09/14/04	Aboulenein et al.	710	306	
	EM	6,795,899 B2	09/21/04	Dodd et al.	711	137	
	EN	6,799,246 B1	09/28/04	Wise et al.	711	117	
	EO	6,799,268 B1	09/28/04	Boggs et al.	712	228	
	EP	6,804,760 B2	10/12/04	Williams	711	170	
	EQ	6,804,764 B2	10/12/04	LaBerge et al.	711	170	
	ER	6,807,630 B2	10/19/04	Lay et al.	713	2	
	ES	6,816,947 B1	11/09/04	Huffman	711	151	
	ET	6,820,181 B2	11/16/04	Jeddeloh et al.	711	169	

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EU	6,823,023 B1	11/23/04	Hannah	375	296	
	EV	2001/0039612 A1	11/08/01	Lee	713	2	
	EW	2002/0112119 A1	08/15/02	Halbert et al.	711	115	
	EX	2002/0116588 A1	08/22/02	Beckert et al.	711	161	
	EY	2003/0043426 A1	03/06/03	Baker et al.	359	109	
	EZ	2003/0043158 A1	03/06/03	Wasserman et al.	345	545	
	FA	2003/0093630 A1	05/15/03	Richard et al.	711	154	
	FB	2003/0163649 A1	08/28/03	Kapur et al.	711	146	
	FC	2003/0177320 A1	09/18/03	Sah et al.	711	158	
	FD	2003/0193927 A1	10/16/03	Hronik	370	351	
	FE	2004/0022094 A1	02/05/04	Radhakrishnan et al.	365	200	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	FF	WO 93/19422	09/30/93	PCT				
	FG	EP0849685A2	06/24/98	EP				

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	FH	Intel, "Flash Memory PCI Add-In Card for Embedded Systems", Application Note AP-758, September, 1997, pp. i-13.
	FI	Micron Technology, Inc., "Synchronous DRAM Module 512MB/1GB (x72, ECC) 168-PIN Registered FBGA SDRAM DIMM", Micron Technology, Inc., 2002, pp. 1-23.
	FJ	Shanley, T. et al., "PCI System Architecture", Third Edition, Mindshare, Inc., 1995, pp. 24-25.
	FK	

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